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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,065	07/15/2005	Weon-Mok Lee	052-401	7591
35870	7590	05/31/2007	EXAMINER	
APEX JURIS, PLLC			CHOWDHURY, AFROZA Y	
TRACY M HEIMS			ART UNIT	PAPER NUMBER
LAKE CITY CENTER, SUITE 410			2629	
12360 LAKE CITY WAY NORTHEAST			MAIL DATE	DELIVERY MODE
SEATTLE, WA 98125			05/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/522,065

Applicant(s)

LEE, WEON-MOK

Examiner

Afroza Y. Chowdhury

Art Unit

2609

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

1. Figure 1 and Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3–10, 12–14, 16, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Gould et al. (US Patent 6285371).

Art Unit: 2609

As to claims 1, 10, and 14, Gould et al. discloses a display apparatus whose signal processing unit is separated (fig. 1, col. 3, lines 20-23), the display apparatus comprising:

- an image display unit (fig. 1) for displaying an image;

- the signal processing unit (fig. 2(50), col. lines 11-15) installed independently at a set top box (fig. 1(12), col. 3, lines 51-55) separated from the image display unit, for converting (fig. 2) an external signal into a signal for driving the image display unit;

- and a signal connecting unit (fig. 2) for connecting the image display unit with the signal processing unit.

As to claims 3, 12, and 16, Gould et al. discloses a display apparatus wherein the signal processing unit comprises:

- a driving circuit (fig. 2(64)) for converting the external signal so that the image display unit can receive the signal;

- and an external signal receiver (page 3, line 28-32) formed at the driving circuit (page 2, [0026]), for receiving signals which a user intends to display.

As to claim 4, Gould et al. teaches a display apparatus wherein the external signal receiver is a television antenna signal receiver (page 3, line 28-32).

As to claim 5, Gould et al. teaches a display apparatus wherein the external signal receiver is a VCR signal receiver (page 3, line 28-32).

As to claim 6, Gould et al. teaches a display apparatus wherein the external signal receiver is a PC signal receiver (page 3, line 28-32).

As to claim 7, Gould et al. teaches a display apparatus wherein the external signal receiver is a DVD signal receiver (page 3, line 28-32).

As to claims 8, Gould et al. teaches a display apparatus wherein the signal processing unit (fig. 2(50), col. lines 11-15) further comprises a signal processing case (fig. 2) in which the driving circuit and the external signal receiver are installed.

As to claims 9, 13, and 17, Gould et al. teaches a display apparatus wherein the signal connecting unit (fig. 2) is a driving signal connector.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2, 11, 15, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gould et al. (US Patent 6285371) in view of Park et.al. (US Pub. 2002/0075253).

As to claims 2, 11, and 15, Gould et al. teaches an entertainment system wherein the image display unit comprises: an image display part (fig. 1) for displaying the image according to the inputted signal.

Gould et al. does not teach an inverter for the display unit.

Park et al. teaches an display device where an inverter (fig. 1(110), page 2, [0026]) for generating a high voltage (page 3, [0052]) required for the image display part; and an inverter connector (fig. 3) for supplying the image display part with the high voltage generated in the inverter (fig. 1(110), page 2, [0026]).

Therefore, it would be obvious to one skill in the art at the time of the invention was made to combine the display device of Part et al. with the entertainment system of Gould et al. to make a display system with an inverter for generating high voltage in order to drive the display.

As to claim 18, Gould et al. discloses a display apparatus whose signal processing unit is separated, the display apparatus comprising:

an image display part (fig. 1) for displaying the image according to the inputted signal.

a driving circuit (fig. 2(64)) separated from the image display part (fig. 1), for converting the external signal into the signal so that the image display part can receive the signal;

an external signal receiver (page 3, line 28-32) formed at the driving circuit (page 2, [0026]), for receiving signals which a user intends to display;

and a driving signal connector (fig. 2) for connecting the driving circuit with the image display part and the inverter.

Gould et al. does not teach an inverter for the display unit.

Park et al. teaches an display device where an inverter (fig. 1(110), page 2, [0026]) for generating a high voltage (page 3, [0052]) required for the image display part; and an inverter connector (fig. 3) for supplying the image display part with the high voltage generated in the inverter (fig. 1(110), page 2, [0026]).

Therefore, it would be obvious to one skill in the art at the time of the invention was made to combine the display device of Part et al. with the entertainment system of Gould et al. to make a display system with an inverter for generating high voltage in order to drive the display.

As to claims 19, Gould et al. teaches a display apparatus wherein the signal processing unit (fig. 2(50), col. lines 11-15) further comprises a signal processing case (fig. 2) in which the driving circuit and the external signal receiver are installed.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afroza Y. Chowdhury whose telephone number is 571-270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571-272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC

5/26/2007



XIAO WU
SUPERVISORY PATENT EXAMINER